

Customer Specification



Date: 19.12.2022
Par: JUB
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FAS MEDIC SA
Route de Bossonnens 2
CH-1607 Palézieux, Switzerland
Tél. +41 (0) 22 775 10 00
www.imi-precision.com/lifescience

Part number	12-216C-04545 F120225 264mA 36ohm	Drawing Nb.	S122.0195 B
Description	Flatprop, 2 way, Normally closed, Proportional direct acting, Cartridge, 4.50 mm, Stainless steel, EPDM	Update date	19.12.2022
		Document Nb.	T122.0452 B

Item

Value

CONSTRUCTION

Number of ways, function	2/2 NC proportional
Operation	Pressure compensated
Connection	Cartridge
Orifice size, mm	4.50
Body material in contact with media	Stainless steel
Oper. material in contact with media	Stainless steel, EPDM
Seal material in contact with media	EPDM
Mounting	Indifferent
Fixing	2 screws M3x6mm (tightening torque 0.45Nm)
Manual override, type	no
Options	clean without oil or grease
Weight (with coil), gr	36 ±4

PERFORMANCE

Pressure range, bar	0 to 7
Back pressure, bar	10% of the inlet pressure
Media, type	Oxygen, neutral gases
Temperature range, ambient °C	-20 to 65°C
Temperature range, media °C	-20 to 50°C
Temperature range, storage °C	-30 to 70°C
Flow Q, l/min	> 150l/min air @ p=3bar & T=20°C
Pneumatic response time, ON, msec	<15 (typical with boosting)
Pneumatic response time, OFF, msec	<15 (typical with boosting)
Life expectancy, cycles	100 Mio. (triangular signal, no on/off)

ELECTRICAL FEATURES

Voltage/frequency, nominal, volt	9.5V @ T=20°C, max 14.25V @ 50°C ambient temp.
Power consumption, nominal, watt	2.5W nominal @ T=20°C
Resistance, ohm	36 ±3% @ T=20°C
Current, amp	0.264 ±3%
Insulation class, °C	F155
Electrical insulation, volt	1000V AC
Protection degree, IP	51
Maximum coil temperature, °C	<120°C @ 50°C ambient temp. valve flowing
Duty cycle, %	100
Electrical connection	300mm AWG24 flying leads

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OTHER

Packing	Individual in plastic bag
Internal leakage @ 0 to 65°C	< 2 ml/min @ pmax
Internal leakage @ -10 to 0°C	< 10 ml/min @ pmax
Internal leakage @ -20 to -10°C	< 20 ml/min @ pmax
External leakage @ 10 to 65°C	<1 ml/min @ p=9.5bar
Proof pressure, bar	10bar
Operating humidity, %	95% RH (non-condensing)

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